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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/759,131	01/20/2004	Kohei Mori	SON-2896	6646
23353	7590 10/04/2005		EXAMINER	
RADER FISHMAN & GRAUER PLLC			CHEN, SHIH CHAO	
LION BUILDI 1233 20TH ST	ING REET N.W., SUITE 501		ART UNIT	PAPER NUMBER
	N, DC 20036		2821	

DATE MAILED: 10/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			N			
	Application No.	Applicant(s)	1)"			
	10/759,131	MORI, KOHEI				
Office Action Summary	Examiner	Art Unit				
	Shih-Chao Chen	2821				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 19 Ju	uly 2005.					
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	action is non-final.	•				
, <del></del>	, <del></del>					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-24 is/are pending in the application.	•		•			
4a) Of the above claim(s) 1-5 and 7 is/are without	•					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>6 and 8-24</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.	•				
10)⊠ The drawing(s) filed on <u>19 July 2005</u> is/are: a) accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d	d).			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	•			
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a	)-(d) or (f).				
1. ☐ Certified copies of the priority documents	s have been received.		-			
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	rity documents have been receive	ed in this National Stage				
application from the International Bureau	ı (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
·						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate Patent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:					

Application/Control Number: 10/759,131 Page 2

Art Unit: 2821

#### **DETAILED ACTION**

### **Drawings**

1. The drawings were received on July 19, 2005. These drawings are disapproved by Examiner because --RELATED ART-- should on FIG. 1.

# Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 12-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Regarding claim 12, what is meant by "a second first non-feed conductor " or " each of said first and non-feed conductors"? it renders the claim indefinite.

### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 6, 8-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Urakami et al. (U.S. Patent No. 5,699,071).

Regarding claim 6, Urakami et al. teaches in figures 1 and 5-14 an antenna unit, comprising: a flat antenna (2); matching control signal generating means (3) for generating a matching control signal corresponding to inputted data; and a matching

Application/Control Number: 10/759,131

Art Unit: 2821

circuit (30) that is so configured that the resonant frequency of the flat antenna is made variable based on the matching control signal outputted from the matching control signal generating means, wherein: the matching circuit (30) comprises a connective circuit (31, 32) including a matching coil (13, 21) and a variable capacitance diode (17, 23), and the resonant frequency of the flat antenna (2) is variably controlled by varying the inductance of the matching coil and the capacitance of the variable capacitance diode based on the matching control signal.

Regarding claim 8, Urakami et al. teaches in figures 1 and 5-14 a broadcast reception terminal apparatus, comprising: a flat antenna (2)., reception means (6) for selecting and receiving airwaves of a desired reception channel; matching control signal generating means (3) for generating a matching control signal corresponding to reception channel selection data supplied from the reception means; and a matching circuit (30) that is so configured that the resonant frequency of the flat antenna is made variable based on the matching control signal outputted from the matching control signal generating means, wherein: the matching circuit (30) comprises a connective circuit (31, 32) including a matching coil (13, 21) and a variable capacitance diode (17, 23), and the resonant frequency of the flat antenna (2) is variably controlled by varying the group including the inductance of the matching coil and the capacitance of the variable capacitance diode.

Regarding claim 9, Urakami et al. teaches in figures 1 and 5-14 the broadcast reception terminal apparatus according to claim 8, wherein: the inductance of the matching coil (13, 21) is varied.

Art Unit: 2821

Regarding claim 10, Urakami et al. teaches in figures 1 and 5-14 the broadcast reception terminal apparatus according to claim 8, wherein: the capacitance of the variable capacitance diode (17, 23) is varied based.

Regarding claim 11, Urakami et al. teaches in figures 1 and 5-14 the broadcast reception terminal apparatus according to claim 8, wherein: the group including the inductance of the matching coil (13, 21) and the capacitance of the variable capacitance diode (17, 23) is varied based on the matching control signal.

## Response to Arguments

Applicant's arguments filed July 19, 2005 have been fully considered but they are not persuasive.

Applicant argues that Urakami fails to disclose, teach or suggest the resonant frequency of the antenna 1 being variably controlled by varying the inductance of either coil 13, 21. specifically, the coils 13, 21 are not shown to be variable. Moreover, the variability of an inductance is not found within Urakami; and Urakami fails to disclose, teach or suggest the resonant frequency of the flat antenna is variably controlled by varying the inductance of the matching coil and the capacitance of the variable capacitance diode based on said matching control signal. This argument is not deemed to be persuasive because Urakami et al. teaches the matching circuit 30 has variable reactance circuits including its central capacitor 19, and varactor diodes 17 and 23 each disposed on right and left branches. The reactance is controlled by the capacitance of the varactor diodes with the common frequency control voltage supplied from the receiver 6 (See col. 4, lines 62—67).

#### Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

### Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shih-Chao Chen whose telephone number is (571) 272-1819. The examiner can normally be reached on Monday-Friday from 7 AM to 4:30 PM, First Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/759,131

Art Unit: 2821

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shih-Vhao Cher Shih-Chao Chen Primary Examiner Art Unit 2821

SHIN-CHAO CHEN Primary examinef

SXC September 26, 2005